



Australian Government

Assessment Requirements for ICTTEN811 Evaluate and apply network security

Release: 1

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Modification History

Release	Comments
Release 1	This version first released with ICT Information and Communications Technology Training Package Version 2.0.

Performance Evidence

Evidence of ability to:

- investigate and report on protocols used for data transmission over IP networks
- investigate and report on network security in terms of internet protocols, digital signature standard (DSS) principles and asymmetric key cryptography on IP networks
- research and report features of web, network management and system security management in IP networks
- recommend enhancements to security management in IP networks.

Note: If a specific volume or frequency is not stated, then evidence must be provided at least once.

Knowledge Evidence

To complete the unit requirements safely and effectively, the individual must:

- explain administrative network management systems
- evaluate algorithms used in IP network security
- specify the purpose of cryptography in security systems
- explain encapsulation and encryption in data transmission
- describe examples of enterprise solutions
- explain firewalls
- outline common network topologies
- summarise operations network management systems
- explain routing theory
- explain and give examples of system threats
- outline transaction protocols.

Assessment Conditions

Gather evidence to demonstrate consistent performance in conditions that are safe and replicate the workplace. Noise levels, production flow, interruptions and time variances should be typical of those experienced in the telecommunications networks engineering field of work and include access to:

- a telecommunications operations site
- a mentor or supervisor appropriately experienced in relevant telecommunications technology and infrastructure
- networked computers and relevant software.

Assessors of this unit must satisfy the requirements for assessors in applicable vocational education and training legislation, frameworks and/or standards.

Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=a53af4e4-b400-484e-b778-71c9e9d6aff2>